

**Polk County Middle School E-Team Tournament**

**Introduce yourself. Welcome the participants. Have the tournament officials introduce themselves.**

**Have the team coaches come forward to introduce themselves and the team members. Instruct everyone to turn off all electronic devices. There is no videotaping allowed. Ask that audience members please remain seated and quiet during the competition. Entry and exit should occur only during the authorized breaks.**

**Conduct a button and calculator check.**

**Begin the 5-point question round for 6<sup>th</sup> grade.**

**ECON** 1. I will give you every other letter of an economic term. Identify the term.

\_\_\_ O \_\_\_ L \_\_\_ T \_\_\_ R \_\_\_ L

Answer: collateral

**SCI** 2. What is the name of the process by which the oceanic crust sinks beneath a deep-ocean trench?

Answer: subduction

**SS** 3. Name the historical document that endows Americans with the unalienable rights of "Life, Liberty, and the pursuit of Happiness."

Answer: Declaration of Independence

**ENG** 4. Identify respectively the adjective and the noun it describes in the following sentence:

Isabel met a hideous giant.

Answer: hideous; giant

**MATH** 5. Convert the fraction  $\frac{3}{5}$  to a percent.

Answer: 60%

**ECON** 6. Complete the following statement using one of the four given choices.

The rate of interest the Fed charges banks is called the (blank).

- \* 1. discount rate
- 2. prime rate
- 3. reserve requirement
- 4. open-market operations

**SCI** 7. Which one of the following four is not an example of a trace fossil?

- 1. burrows
- \* 2. teeth
- 3. trails
- 4. footprint

**GEOG** 8. Identify the geographic term associated with tropical storms of hurricane force located in the Pacific region.

Answer: typhoons

**MATH** 9. The number 71,612 is divisible by 3. True or false?

Answer: false

**ENG** 10. Match each of the three literary terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. flashback	1. central message of a story
B. foreshadowing	2. a scene set back in time
C. theme	3. hints that suggest what may take place later in a story

Answer: A-2, B-3, C-1

**End of 5-point round for 6<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 10-point question round for 6<sup>th</sup> grade.**

**GEOG** 11. Unscramble the following letters to form the geographic term for the science of mapmaking.

G, R, R, C, T, Y, P, H, A, A, O

Answer: cartography

**ECON** 12. In which one of the following four situations can workers not be hired unless they are union members?

1. industrial union
2. craft union
- \* 3. closed shop
4. open shop

**MATH** 13. The temperature in Lakeland on a given day ranged from a low of 27° in the morning to a high of 73° in the afternoon. Find the range in temperature for that day.

Answer: 46°

**SCI** 14. What two quantities are used to calculate density?

Answer: mass and volume (either order)

- ENG** 15. Identify the prepositional phrase in the following sentence.  
She squeezed between her parents and watched the parade.  
Answer: between her parents
- ECON** 16. Unscramble the letters to form a three-word economic term from your glossary. Identify the term.  
1<sup>st</sup> word: C, U, N, O, T, D, R, O, P, I  
2<sup>nd</sup> word: I, P, T, I, E, S, O, S, B, L, I, S, I  
3<sup>rd</sup> word: R, E, F, O, N, T, I, R  
Answer: production possibilities frontier
- MATH** 17. Calculate in square inches the area of a triangle with a base measurement of 11 inches and the height measurement of 12 inches.  
Answer: 66 (in<sup>2</sup>)
- SCI** 18. Classify respectively the following four sedimentary rocks as clastic, organic, or chemical.  
1. conglomerate  
2. halite  
3. coal  
4. shale  
Answer: 1. clastic; 2. chemical; 3. organic; 4. clastic
- GEOG** 19. Give the geographic term for where a river begins.  
Answer: (river) source
- ENG** 20. This question requires three answers. Spell respectively the correct homophone (t-h-r-o-u-g-h or t-h-r-e-w) to complete the following three sentences.  
1. He skated (blank) the tunnel.  
2. Sam (blank) a rock into the pond.  
3. The plane flew (blank) the clouds.  
Answer: 1. t-h-r-o-u-g-h; 2. t-h-r-e-w; 3. t-h-r-o-u-g-h

**End of 10-point round for 6<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 15-point question round for 6<sup>th</sup> grade.**

**ECON** 21. Of which one of the following four is the local cable-television market an example?

- \* 1. monopoly
- 2. oligopoly
- 3. monopolistic competition
- 4. product differentiation

**MATH** 22. Order the following three rational numbers from greatest to least:  $-5/6$ , 2.2,  $-0.5$

Answer: 2.2,  $-0.5$ ,  $-5/6$

**ENG** 23. Identify the part of speech for the word “pack” as it is used in the following sentence.

When Sly had finished his art project, he went to his friend’s house to help her pack for camp.

Answer: verb

**SCI** 24. This is a two-part question. Fill in respectively the two blanks by converting the following two SI measurements.

Part 1: 525 centimeters = (blank) kilometers

Part 2: 253 liters = (blank) milliliters

Answer: Part 1: 00525; Part 2: 253,000

**ECON** 25. Unscramble the following letters to form the plural form of a two-word economic term.

1<sup>st</sup> word: R, C, M, O, S, E, N, U

2<sup>nd</sup> word: V, C, E, E, R, I, S, S

Answer: consumer services

**GEOG** 26. Name the first settlers of the country of New Zealand.

Answer: Maori

**MATH** 27. Find the median of the following set of data: 23, 18, 67, 32, 54, 41, 70, 11, 56

Answer: 41

**SCI** 28. Fill in the blank with the missing word from science. The amount of (blank) in magma determines if the magma will flow easily or not. If it is present in high amounts the resulting rock will be light colored.

Answer: silica (Note: Do not accept silicon.)

**GEOG** 29. Identify respectively the countries associated with the following three world landmarks:

1. Taj Mahal
2. Great Wall
3. Sphinx

Answer: 1. India; 2. China; 3. Egypt

**ECON** 30. Which one of the following four is the most important type of business organization in the United States in terms of the amount of business done?

- \* 1. corporation
- 2. sole proprietorship
- 3. joint venture
- 4. limited partnership

**End of 15-point round for 6<sup>th</sup> grade.**

**It is time for the 30-point team question. This team question is entitled “Lost Treasures.”**

**For this team question you will use Handout 6-1-1. Locate the envelope labeled 6-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**This team question is worth a total of 30 points, and each question is worth 3 points. Although these questions deal with lost treasures, one letter of each word has been found and provided for you.**

**In the envelope are four copies of Handout 6-1-1. You will be given 4 minutes to complete the questions on Handout 6-1-1. You must present your answers on only one handout that will be collected and scored by the judges. SPELLING DOES COUNT; therefore, use all capital letters and write one letter per block.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (3 points each)**

- |                     |                   |
|---------------------|-------------------|
| 1. decline          | 6. gold doubloons |
| 2. Long John Silver | 7. Prometheus     |
| 3. 12 (jewels)      | 8. 16             |
| 4. pyrite           | 9. Mesozoic       |
| 5. Aswan Dam        | 10. Silk Road     |

**Announce scores from the team question.**

**Ask if there are any questions concerning the scoring.**

**Announce the two-minute break during which the 7<sup>th</sup> grade team is seated. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils if needed.)**

**Handout 6-1-1**

**TEAM #** \_\_\_\_\_

**Lost Treasures**

1. During which period of the business cycle would an investor in the stock market lose a great deal of money?  

		C				
--	--	---	--	--	--	--
  
2. Name the antagonist in Robert Louis Stevenson's *Treasure Island*.  

		N	
--	--	---	--

			N
--	--	--	---

	I				
--	---	--	--	--	--
  
3. Upon finding a lost treasure, it was noticed that the jewels could be divided equally among 2 pirates, 3 pirates or 4 pirates. If there were fewer than 20 jewels, how many jewels were in this treasure?  

--	--
  
4. During the California Gold Rush of 1849, people found gold but most found this mineral called "fool's gold."  

		R			
--	--	---	--	--	--
  
5. This engineering treasure provides Egypt with electricity, drinking water, irrigation, and controls flooding of the Nile.  

			A	
--	--	--	---	--

	A	
--	---	--
  
6. Spanish galleons that were sunk off the coast of Florida held millions of dollars in lost treasure in the form of  

G			
---	--	--	--

			B				
--	--	--	---	--	--	--	--
  
7. According to Greek mythology, who stole the treasure of fire from the gods and gave it to man?  

					T			
--	--	--	--	--	---	--	--	--
  
8. Captain Jack's pirate ship could stow up to 2,500 pounds of cargo. If each treasure chest weighs 150 pounds, what is the greatest number of treasure chests his ship could carry?  

--	--
  
9. Identify the geologic time era connected to extinct dinosaurs. 

			O				
--	--	--	---	--	--	--	--
  
10. Marco Polo never lost his way on this well-traveled route between Europe and China.  

		L	
--	--	---	--

		A	
--	--	---	--

**Time 2 minutes.**

**Conduct a button and calculator check after the break.**

**Announce cumulative scores.**

**Begin the 5-point question round for 7<sup>th</sup> grade.**

**SCI** 1. How many total faces does a hexagonal mineral crystal have?

Answer: 8

**ECON** 2. State and spell the twelve-letter economic term defined by the following: One who organizes and manages resources and who assumes the risks of a business for the sake of the possible profit.

Answer: e-n-t-r-e-p-r-e-n-e-u-r

**GEOG** 3. Name the only continent that does not contain a desert.

Answer: Europe

**ENG** 4. Identify the prepositional phrases in the following sentence:

They waited with excitement for the appearance of the sun.

Answer: with excitement; for the appearance; of the sun

**MATH** 5. The number 1360 is divisible by which one or ones of the following four numbers: 2, 4, 5, and/or 6?

Answer: 2, 4, 5

**ECON** 6. Which one of the following four is a characteristic of a pure monopoly?

1. There are many sellers of the good or service.
2. There is no adequate substitute for the good or service being sold.
3. Others can easily enter the market.
- \* 4. There is only one seller of the good or service.

**SCI** 7. Fill in the blank with the missing science word. Open-pit, (blank), and strip are the three types of mines.

Answer: shaft

**ENG** 8. Identify the adverb in the following sentence:

The home owner eagerly invited his new guest into the house.

Answer: eagerly

**MATH** 9. What is the degree measure of the exterior angle of a polygon with an interior angle of measure  $60^\circ$ ?

Answer:  $120^\circ$

**SS** 10. Name the first paragraph of the US Constitution which identifies the goals of the new government.

Answer: Preamble

**End of 5-point round for 7<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 10-point question round for 7<sup>th</sup> grade.**

**MATH** 11. Evaluate the expression b plus the opposite of a when  $a = -3$  and  $b = 7$ .

Answer: 10

**ECON** 12. Match each of the four economic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. business fluctuations	1. the lowest point in the business cycle
B. economic peak	2. a period of prosperity
C. recession	3. the ups and downs in an economy
D. trough	4. any period of at least six months during which the real GDP does not grow

Answer: A-3, B-2, C-4, D-1

**GEOG** 13. Name the three European countries that form the Low Countries.

Answer: Belgium, the Netherlands, Luxembourg (any order)  
(Note: Do not accept: Holland for the Netherlands)

**SCI** 14. Fill in the blank with the missing science term. In order to determine the density of a rock, geologists use a process known as (blank) to determine its volume.

Answer: displacement

**ENG** 15. Match each of the four authors to his or her novel.

<u>Authors</u>	<u>Novels</u>
A. Paula Fox	1. <i>Call It Courage</i>
B. Jack London	2. <i>Roll of Thunder, Hear My Cry</i>
C. Armstrong Sperry	3. <i>The Slave Dancer</i>
D. Mildred Taylor	4. <i>Call of the Wild</i>

Answer: A-3, B-4, C-1, D-2

**MATH** 16. Determine the degree measure of the third angle in a triangle with two angles measuring  $65^\circ$  and  $55^\circ$ .

Answer:  $60^\circ$

**ECON** 17. Fill in respectively the blanks with the proper economic systems in the following two definitions from your glossary.

1. (Blank) is an economic system in which most of the means of production are owned and controlled by the government.
2. (Blank) is an economic system in which all production resources are owned collectively.

Answer: 1. socialism; 2. communism

**GEOG** 18. If 75% of a nation's population is literate, what is the majority of its people able to do?

Answer: read (Note: may include and write)

**SCI** 19. What is the name of a cone-shaped deposit that rises from the floor of a cave?

Answer: stalagmite (Note: Do not accept stalactite.)

**ENG** 20. Identify the appositive in the following sentence:

C.S. Lewis, a British author, wrote more than thirty books for children and adults.

Answer: a British author

**End of 10-point round for 7<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 15-point question round for 7<sup>th</sup> grade.**

**ECON** 21. Which one of the following four statements describes an economic boom?

1. Business activity slows down.
2. Factories cut back on production.
3. Consumers decrease their purchases.
- \* 4. Everyone who wants to work can find a job.

**SCI** 22. What law in geology states that the layers of sedimentary rock are older than the layer above it and younger than the layer below it?

Answer: (Law of) Superposition

**ENG** 23. From left to right, capitalize and punctuate the following sentence:

“Excuse me, Ms. Allen, do you have a biography of Herman Melville?” asked Susie.

Answer: (see above) (accept: period after Allen and capitalize Do)

**MATH** 24. A certain bag contains 6 green marbles, 8 blue marbles, and 4 red marbles. State in reduced form the probability of not drawing a green marble.

Answer: 2/3

**GEOG** 25. Which one of the following four is the landmark population figure attained by the United States in October 2006?

1. 3 million
2. 30 million
- \* 3. 300 million
4. 3 billion

**ENG** 26. Unscramble the following letters to form a figurative language term that applies to words that imitate natural sounds. Spell the term.

A, M, O, O, P, T, O, O, N, A, I, E

Answer: onomatopoeia

**SCI** 27. In which one of the following four parts of a leaf does food, made during photosynthesis, travel throughout the plant?

1. cuticle
2. stomata
3. xylem
- \* 4. phloem (Note to reader: pronounced “flow-um”)

**MATH** 28. Calculate the final cost of a ticket to Polk Theater if you are given a discount of 20% on a \$27.50 ticket.

Answer: \$22.00

**ECON** 29. Which one of the following four statements best describes a credit card?

- \* 1. It is a type of loan.
- 2. It is only issued by a bank.
- 3. It is a store of value.
- 4. It is money.

**SS** 30. Unscramble the following letters to form the two-word term for the type of government practiced in Great Britain.

1<sup>st</sup> word: O, O, I, I, U, A, C, L, N, N, S, T, T, T

2<sup>nd</sup> word: A, O, Y, H, M, C, R, N

Answer: constitutional monarchy

**End of 15-point round for 7<sup>th</sup> grade.**

**It is time for the 30-point team question. This team question is entitled “Ancient Treasures.”**

**For this team question you will use Handout 7-1-1. Locate the envelope labeled 7-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**This team question is worth a total of 30 points, and each question is worth 3 points.**

**In the envelope are four copies of Handout 7-1-1. You will be given 4 minutes to complete the questions on Handout 7-1-1. You must present your answers on only one handout that will be collected and scored by the judges.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (3 points each)**

- |                             |                   |
|-----------------------------|-------------------|
| 1. abacus                   | 6. feudalism      |
| 2. Inca(n)                  | 7. city-state(s)  |
| 3. Excalibur                | 8. 3              |
| 4. 46,200 (m <sup>2</sup> ) | 9. 1930           |
| 5. petrified                | 10. mummification |

**Announce scores from the team question.**

**Ask if there are any questions concerning the scoring.**

**Handout 7-1-1**

**TEAM #** \_\_\_\_\_

**Ancient Treasures**

1. The beads of what instrument were used to calculate the profits for businessmen in ancient China?  
\_\_\_\_\_
2. Machu Picchu was a great city built by what ancient civilization? \_\_\_\_\_
3. Identify the direct object in the following sentence: Arthur pulled Excalibur from the ancient stone.  
\_\_\_\_\_
4. Each side of first true pyramid, the Red Pyramid, is 220 meters long, and each side has a slant height of 105 meters. Calculate in square meters the total surface area of the four sides of the pyramid.  
\_\_\_\_\_
5. The nine-letter word, \_\_\_\_\_, means a fossil “turned to stone.”
6. What was the economic system of the Middle Ages which included the lord of the manor, serfs, and knights?  
\_\_\_\_\_
7. These lost units of government in ancient Greece such as Athens and Sparta established the first democratic principles.  
\_\_\_\_\_ – \_\_\_\_\_
8. Indicate by number which one of the following four Latin phrases is found on the US nickel. \_\_\_\_\_
  1. ANNO DOMINI
  2. ANTE BELLUM
  3. E PLURIBUS UNUM
  4. SEMPER FIDELIS
9. Write the Roman numeral MCMXXX in standard form. \_\_\_\_\_
10. What is the name of the process used by the ancient Egyptians to preserve the pharaohs?  
\_\_\_\_\_

**Announce the FIVE-minute break during which the 8<sup>th</sup> grade team is seated. This is the restroom break for students, coaches, and observers. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils on tables.)**

**Time 5 minutes.**

**Conduct a button and calculator check after the break.**

**Announce cumulative scores.**

**Begin the 5-point question round for 8<sup>th</sup> grade.**

**SS** 1. What is the name of the organization founded by Clara Barton in 1881?

Answer: The Red Cross

**MATH** 2. Suppose one card is drawn at random from a standard deck of 52 cards. State in lowest terms the probability that the card drawn is a 10 or a jack.

Answer: 2/13

**ENG** 3. Which one of the following four terms is an antonym for the word meticulous?

1. silent
- \* 2. sloppy
3. sneaky
4. elastic

**SCI** 4. State the following number in scientific notation: nine billion, three hundred eighty million

Answer:  $9.38 \times 10^9$

**SS** 5. Which one of the following four men did not sign the Declaration of Independence?

- \* 1. George Washington
2. Benjamin Franklin
3. Robert Morris
4. Thomas Jefferson

**MATH** 6. Use the distributive property to restate the following expression: a times the quantity b + c

Answer:  $ab + ac$

**ENG** 7. Use the singular or plural form of the verb to share to complete the following sentence:

Everyone in the hiding place (blank) three small rooms.

Answer: shares

- SS** 8. Which one of the following four items was not transferred during the Columbian Exchange?
1. food crops
  2. enslaved people
  - \* 3. manufactured goods
  4. disease

- SCI** 9. Fill in the blank with the missing science term. Compounds found in living things are called organic compounds because they contain the element (blank) combined with other elements.
- Answer: carbon

- MS** 10. If in the year 1660 the African American population in the American colonies was 2,920 and the total population of the colonies was 75,058, compute to the nearest whole number what percent of the colonial population were people of African ancestry.
- Answer: 4%

**End of 5-point round for 8<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 10-point question round for 8<sup>th</sup> grade.**

- ECON** 11. Which one of the following four statements describes an unfavorable balance of trade?
- \* 1. A country imports more than it exports.
  2. A country exports more than it imports.
  3. Taxes on imports are very high.
  4. A country has too many markets for its goods.

- ENG** 12. Identify the figurative language exemplified in the following line:
- A meteor flies like a red-hot basketball.
- Answer: simile

- SCI** 13. On the Hertzsprung-Russell diagram, which one of the following four groups of stars contains the smallest, coolest stars?
1. blue
  - \* 2. red
  3. yellow
  4. white

**SS** 14. Name the US president who said, "I believe that this government cannot endure permanently half slave and half free."

Answer: (Abraham) Lincoln

**MATH** 15. Find the surface area in square units of a rectangular prism having the dimensions of 2 x 3 x 5 units.

Answer: 62 (square units)

**ECON** 16. Which one of the following four is the trade-off when buying a car with a small engine?

1. The car will burn more gasoline.
- \* 2. The car will accelerate less quickly.
3. The car will be more costly to operate.
4. The car will protect passengers better in an accident.

**SS** 17. Match each of the three branches of government to the people who perform its function.

<u>Branches</u>	<u>People</u>
A. Legislative	1. Supreme Court
B. Judicial	2. President
C. Executive	3. Congress

Answer: A-3, B-1, C-2

**SCI** 18. Name the three types of pulleys.

Answer: fixed, moveable, and block & tackle (any order)

**MATH** 19. Calculate the value of 5 raised to the negative 3 power.

Answer: 1/125

**ENG** 20. Match each of the three literary works to its setting.

<u>Works</u>	<u>Settings</u>
A. "The Midnight Ride of Paul Revere"	1. US Civil War
B. "The Drummer Boy of Shiloh"	2. World War II
C. <i>The Diary of Anne Frank</i>	3. American Revolution

Answer: A-3, B-1, C-2

**End of 10-point round for 8<sup>th</sup> grade.**

**Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.**

**Time 2 minutes.**

**Conduct a button check after the break.**

**Announce cumulative scores.**

**Begin the 15-point question round for 8<sup>th</sup> grade.**

**ENG** 21. Put the following three plot elements in the correct order: climax, denouement, exposition

Answer: exposition, climax, denouement

**ECON** 22. Which one of the following four taxes takes a larger percentage of income from a high-income person than from a low-income person?

1. proportional
2. regressive
- \* 3. progressive
4. ascending

**MATH** 23. Find the y-intercept of the graph of the equation  $3y = 9x + 27$ .

Answer: (0, 9) (accept: 9)

**SCI** 24. Name the four groups of organic compounds.

Answer: carbohydrates, proteins, lipids, nucleic acids (any order)

**SS** 25. Match each of the four US Constitutional amendments to the voting right it addressed.

<u>Amendments</u>	<u>Voting Rights</u>
A. 15 <sup>th</sup>	1. women's right to vote
B. 19 <sup>th</sup>	2. 18-year olds' right to vote
C. 24 <sup>th</sup>	3. elimination of the poll tax
D. 26 <sup>th</sup>	4. African-Americans' right to vote

Answer: A-4, B-1, C-3, D-2

**ECON** 26. Which one of the following four was the major purpose for the creation of FDIC?

1. to process checks
2. to issue money
3. to control the rate of growth of the money supply
- \* 4. to insure bank depositors' accounts

**MATH** 27. If  $v \geq -2.6$ , what is the smallest integer that satisfies the condition?

Answer: -2

ENG 28. Match each of the four idioms to its meaning.

<u>Idioms</u>	<u>Meanings</u>
A. crying crocodile tears	1. confront a difficult situation
B. nip and tuck	2. insincere
C. face the music	3. hotly contested or close
D. feather in his cap	4. accomplishment

Answer: A-2, B-3, C-1, D-4

**For the next question you will use the formula for gravitational potential energy,  $GPE = \text{mass times height times the acceleration due to gravity}$ . The acceleration due to gravity is 9.8 meters per second squared.**

SCI 29. Calculate in kilograms the mass of a mountain climber 400 meters above the ground, if his GPE is 215,600 Joules.

Answer: 55 (kilograms)

SS 30. Place in chronological order the passage by the British Parliament of the following four acts leading to the Revolutionary War.

1. Townshend Acts
2. Stamp Act
3. Intolerable Acts
4. Tea Act

Answer: 2, 1, 4, 3 (accept: Stamp Act, Townshend Acts, Tea Act, Intolerable Acts)  
(Note: 1765; 1767; 1773; 1774)

**End of 15-point round for 8<sup>th</sup> grade.**

**It is time for the 30-point team question. This team question is entitled “National Treasures.”**

**For this team question you will use Handout 8-1-1. Locate the envelope labeled 8-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**This team question is worth a total of 30 points, and each question is worth 3 points.**

**In the envelope are four copies of Handout 8-1-1. You will be given 4 minutes to complete the questions on Handout 8-1-1. You must consolidate your answers on only one handout that will be collected and scored by the judges.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (3 points each)**

1. Federal Reserve
2. National Archives
3. (Edgar Allan) Poe
4. 1.14 (hours)
5. Mohs
6. Fort Knox
7. Everglades
8. Paul Bunyan
9. 38 : 1 (accept: 38 to 1)
10. Au, Ag, Pt (must have all three correct to receive 3 points)

**Announce scores from the team question. Ask if there are any questions concerning the scoring.**

**TEAMS MUST REMAIN SEATED WHILE FINAL SCORES ARE TALLIED.**

**[If scores are tied for one of the first three places, have a two-minute break before beginning the tie-breaker question(s). Only those teams whose scores are tied will compete.]**

**Announce the two-minute break.**

**Time 2 minutes.**

**Begin tie-breaker question round.**

**Conduct a button check.**

**One point is awarded to the team for a correct answer, or one point is subtracted for an incorrect answer.**

**Handout 8-1-1**

**TEAM #** \_\_\_\_\_

**National Treasures**

1. What agency of the national government acts as the bankers' bank?  
\_\_\_\_\_
  
2. Name the place where America's historic documents such as the Declaration of Independence and the US Constitution are housed.  
\_\_\_\_\_
  
3. Name the author who not only wrote horror stories, but was also known as the father of the American detective story.  
\_\_\_\_\_
  
4. Our national bird, the bald eagle, has been known to fly 44 mph at regular flight. If a bald eagle flew 50 miles, to the nearest hundredth hour how long was the eagle in flight?  
\_\_\_\_\_
  
5. Name the scale on which the diamond is the hardest mineral. \_\_\_\_\_
  
6. Where was the gold stored to maintain the now obsolete gold standard?  
\_\_\_\_\_
  
7. This treasure known as "the river of grass" is one of Florida's three national parks.  
\_\_\_\_\_
  
8. According to legend, which American folk hero is credited with creating Puget Sound, the Grand Canyon, and the Black Hills?  
\_\_\_\_\_
  
9. In the Jefferson Memorial, a portrait statue stands 19 feet tall. A souvenir of this statue measures 6 inches. What is the scale factor?  
\_\_\_\_\_
  
10. Give the chemical symbols for the following three elements used to make jewelry treasures.  
Gold \_\_\_\_\_ Silver \_\_\_\_\_ Platinum \_\_\_\_\_